·	Application No.	Applicant(s)
Notice of Allowability	10/572,569	IDE, TORU
	Examiner	Art Unit
	Amy He	2858
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED in this apply or other appropriate communication (RIGHTS). This application is subject to	plication. If not included number in will be mailed in due course. THIS
1. This communication is responsive to <u>amendment dated 0.</u>	<u> 2 January 2008</u> .	
2. The allowed claim(s) is/are 1 and 3-20.		
 3.		
Certified copies of the priority documents have been received in Application No		
Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. 反 Examiner's Amendr	te ment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Crystal Wilson on February 20, 2008.

The application has been amended as follows:

In the Specification:

- 1) In the brief description of drawings in the specification (on page 10), replaced the paragraph describing Figure 10 with the following:
 - Fig. 10 (a) shows a horizontal formation method.
 - Fig. 10 (b) shows a horizontal formation method using hydraulic pressure.
- 2) In the brief description of drawings in the specification (on page 11), replaced the paragraph describing Figure 14 with the following:
 - Fig. 14 (a) illustrates a trace of the current in case where the aqueous solution includes 100 mM KCl and 10⁻⁹ M CaCl₂.

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Fig. 14 (b) illustrates a trace of the current in case where the aqueous solution includes 100 mM KCI and 1 mM CaCl₂

REASONS FOR ALLOWANCE

- 2. Claims 1 and 3-20 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Claims 1, 3, 13 and 15-18 are allowable because the inclusion of "a negative pressure generation means for dropping an internal pressure of the lower solution chamber" so as to cause the artificial lipid bilayer membrane formed on the membrane formation opening of the upper solution chamber to swell to a side of the lower solution chamber so as to cause the membrane to be thinner and come into contact with the support layer, and in the combination as claimed.

Claims 4-12, 14 and 19-20 are allowable because none of the prior art discloses a current measuring device, which is capable of measuring a current flowing via an artificial lipid bilayer membrane, comprising an interval keeping member capable of changing an interval between the upper solution chamber and the bottom plate, and the change of the interval causes the artificial lipid bilayer membrane formed on the membrane formation opening of the upper solution chamber to swell to the side of the lower solution chamber so as to make the artificial lipid bilayer to be thinner and to come into contact with the support layer, and in the combination as claimed.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amy He whose telephone number is (571) 272-2230. The examiner can normally be reached on 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on 571-272-2168. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Hirshfeld

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